

CLAIM SET AS AMENDED

1. (Currently Amended) A chain tensioner provided with a tensioner arm rockably supported by a fixed structure and slidably engaged with an outside on a loose side of a an endless transmission chain ~~without an end coupling~~ that couples a driving sprocket and a driven sprocket ~~and,~~

wherein a tensioner lifter is supported by the fixed structure for pressing the tensioner arm upon the side of the transmission chain,

wherein:— a control arm rockably is supported by ~~a~~ the fixed structure for transmitting pressure from the tensioner lifter to the tensioner arm, said control arm being inserted between the tensioner ~~arm~~ lifter and a portion of the tensioner lifter arm, and

the tensioner lifter being disposed substantially closer to a pivot point of the control arm than to a pivot point of the tensioner arm.

2. (Original) The chain tensioner according to claim 1, wherein a point of an application of the pressure of the tensioner lifter upon the control arm is set to substantial a middle of the center of the oscillation of the control arm and a point at which the control arm presses the tensioner arm.

3. (Currently Amended) The chain tensioner according to claim 1, wherein a pressing part slidably engaged with the outside of the transmission chain is provided ~~to~~ on a

portion of the control arm disposed between the end of the tensioner arm and the sprocket in the vicinity of the end.

4. (Currently Amended) The chain tensioner according to claim 2, wherein a ~~pressing part slidably engaged with the outside of the transmission chain is provided to the~~ control arm is substantially shorter in length than between the end of the tensioner arm and the sprocket in the vicinity of the end.

5. (Original) The chain tensioner according to claim 1, wherein said control arm includes a proximal end and a distal end and said tensioner arm includes a proximal end and a distal end, said proximal end of said tensioner arm being pivotably mounted relative to said fixed structure and said proximal end of said control arm being pivotably mounted relative to said fixed structure at a point displaced relative to the pivotable mounting of said tensioner arm.

6. (Original) The chain tensioner according to claim 5, wherein said distal end of said control arm engages the tensioner arm at a point displaced a predetermined distance from the distal end of the tensioner arm towards the proximal end of the tensioner arm.

7. (Original) The chain tensioner according to claim 1, wherein said control arm includes a proximal end and a distal end, said proximal end of said control arm being

pivotably mounted relative to said fixed structure, said distal end of said control arm being in engagement with said tensioner arm and an engaging portion of said control arm disposed between said proximal end and said distal end being operatively engaged with said tensioner lifter for applying a force to said tensioner arm.

8. (Currently Amended) The chain tensioner according to claim 7, and further including an auxiliary shoe mounted on said control arm and being in direct engagement with said transmission chain.

9. (Original) The chain tensioner according to claim 8, wherein said auxiliary shoe is constructed of a synthetic resin material.

10. (Original) The chain tensioner according to claim 7, and further including a pressure plate and a cushion material mounted on said engaging portion of said control arm for engagement with said tensioner lifter.

11. (Currently Amended) A tensioner comprising:

a tensioner arm;

a transmission member operatively coupled between a driving sprocket and a driven sprocket, said tensioner arm being in engagement with a loose side of said transmission member;

a tensioner lifter for pressing the tensioner arm into engagement with the loose side of the transmission member; and

a control arm movably mounted relative to said tensioner arm for transmitting pressure from the tensioner lifter to the tensioner arm, said control arm being inserted between the tensioner arm and the tensioner lifter,

wherein the control arm is shaped differently from the tensioner arm, the control arm being shaped for transmitting the pressure from the tensioner lifter to the tensioner arm at a specific pressure point N of the control arm,

the control arm not contacting the tensioner arm directly under point P where the tensioner lifter applies the pressure to the control arm.

12. (Original) The tensioner according to claim 11, wherein a point of an application of the pressure of the tensioner lifter upon the control arm is set to substantially a middle of the center of the oscillation of the control arm and a point at which the control arm presses the tensioner arm.

13. (Currently Amended) The tensioner according to claim 11, wherein a pressing part slidably engaged with the outside of the transmission member is provided ~~to~~ on a portion of the control arm disposed between the end of the tensioner arm and the sprocket ~~in the vicinity of the end.~~

14. (Currently Amended) The tensioner according to claim 12, wherein a pressing part ~~slidably engaged~~ with directly contacting the outside of the transmission member is provided ~~to~~ on a portion of the control arm disposed between the end of the tensioner arm and the sprocket ~~in the vicinity of the end~~.

15. (Original) The tensioner according to claim 11, wherein said control arm includes a proximal end and a distal end and said tensioner arm includes a proximal end and a distal end, said proximal end of said tensioner arm being pivotably mounted relative to a fixed structure and said proximal end of said control arm being pivotably mounted relative to said fixed structure at a point displaced relative to the pivotable mounting of said tensioner arm.

16. (Original) The tensioner according to claim 15, wherein said distal end of said control arm engages the tensioner arm at a point displaced a predetermined distance from the distal end of the tensioner arm towards the proximal end of the tensioner arm.

17. (Original) The tensioner according to claim 11, wherein said control arm includes a proximal end and a distal end, said proximal end of said control arm being pivotably mounted relative to a fixed structure, said distal end of said control arm being in engagement with said tensioner arm and an engaging portion of said control arm disposed

between said proximal end and said distal end being operatively engaged with said tensioner lifter for applying a force to said tensioner arm.

18. (Currently Amended) The tensioner according to claim 17, and further including an auxiliary shoe mounted on said control arm and being in direct engagement with said transmission member.

19. (Original) The tensioner according to claim 18, wherein said auxiliary shoe is constructed of a synthetic resin material.

20. (Original) The tensioner according to claim 17, and further including a pressure plate and a cushion material mounted on said engaging portion of said control arm for engagement with said tensioner lifter.

21. (New) The tensioner according to claim 1, wherein the control arm is curved toward the tensioner arm, and the distal end of the tensioner arm is disposed at a curved portion of the control arm.

22. (New) The tensioner according to claim 11, wherein the control arm is curved toward the tensioner arm, and the distal end of the tensioner arm is disposed at a curved portion of the control arm.